

Serial No. 60/112,265 filed December 15, 1998, to U.S. provisional patent application Serial No. 60/112,263 filed December 15, 1998 and to U.S. provisional patent application Serial No. 60/123,512 filed March 8, 1999, the entire contents of each of which are incorporated herein by this reference.--

IN THE CLAIMS

Please cancel Claims 1-24 and add the following new claims:

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25. An electrostatic microactuator comprising a substantially planar substrate, at least one electrostatic drive assembly having first and second electrostatic drive members, the first electrostatic drive member being mounted on the substrate, first and second spaced-apart springs, each spring having a first end portion coupled to the substrate and a second end portion coupled to the second electrostatic drive member for suspending the second electrostatic drive member over the substrate, the second electrostatic drive member being movable to a plurality of positions relative to the first electrostatic drive member, and electrical control means coupled to the first and second electrostatic drive members for monitoring the position of the second electrostatic drive member relative to the first electrostatic drive member.

26. The microactuator of Claim 25 wherein the electrical control means includes means for measuring the capacitance between the first and second electrostatic drive members.

27. The microactuator of Claim 25 wherein each of the first and second electrostatic drive members is a comb drive member having comb drive fingers.

28. The microactuator of Claim 27 wherein the second comb drive member is movable relative to the first comb drive member from a first position in which the comb drive fingers of the first and second comb drive members are not substantially fully interdigitated to a second position in which the comb drive fingers of the first and second comb drive members are substantially fully interdigitated, the closed loop electrical control means including means for measuring the capacitance between the comb drive fingers of the first and second comb drive members.